





European Patent  
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# EUROPEAN SEARCH REPORT

Application Number

EP 88 30 0852

## DOCUMENTS CONSIDERED TO BE RELEVANT

| Category  | Citation of document with indications, where appropriate, of relevant passages  | Relevant to claim   | CLASSIFICATION OF THE APPLICATION (Int. Cl. 6)                 |
|---|---|---|--|
| X   | THE EMBO JOURNAL, vol. 6, no. 1, January 1987, pages 11-16, IRL Press Ltd, Eynsham, Oxford, GB; J.G. ELLIS et al.: "Maize Adh-1 promoter sequences control anaerobic regulation: addition of upstream promoter elements from constitutive genes is necessary for expression in tobacco"<br>* Page 15, left-hand column, lines 10-17 *   | 1,2,5-<br>12,16-<br>23,25-<br>29,32-<br>34  | C 12 N 15/00<br>A 01 H 1/00                                    |
| Y   | IDEM  | 13-15,<br>24  |  |
| O,X   | J. CELLULAR BIOCHEMISTRY SUPPL. 100 SYMPOSIUM ON TRANSCRIPTIONAL CONTROL MECHANISMS HELD AT 15TH ANNUAL MEETING OF THE UCLA SYMPOSIA ON MOLECULAR AND CELLULAR BIOLOGY, 6th-13th April 1986, page 136, abstract no. 0163; J.C. INGERSOLL et al.: "Identification of the DNA sequence elements responsible for anaerobic induction of maize Adh1"<br>* Abstract *  | 1,25  | TECHNICAL FIELDS SEARCHED (Int. Cl. 4)<br><br>C 12 N<br>A 01 H |
| O,P<br>X  | UCLA SYMP. MOL. CELL. BIOL., NEW SER., V62 PLANT GENE SYSTEMS AND THEIR BIOLOGY, PROCEEDINGS OF A CIBA-GEIGY-UCLA SYMPOSIUM, Tamaron, Colorado, 2nd-8th February 1987, pages 263-277, Alan R. Liss, Inc.; J. PEACOCK et al.: "Developmental and environmental regulation of the maize alcohol dehydrogenase 1 (Adh1) gene: promoter-enhancer interactions"<br>* Whole document especially page 275, paragraph 1 * | 1,2,5-<br>12,16-<br>34  |  |
| The present search report has been drawn up for all claims  |   |   |  |
| Place of search<br><b>THE HAGUE</b>   |   | Date of completion of the search<br><b>20-04-1990</b>   | Examiner<br><b>MADDOX A.D.</b>                                 |
| CATEGORY OF CITED DOCUMENTS   |   | <p>T: theory or principle underlying the invention<br/>E: earlier patent document, but published on, or after the filing date<br/>D: document cited in the application<br/>L: document cited for other reasons</p> <p>&amp;: number of the same patent family, corresponding document</p> |  |
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| O, P<br>Y   | IDEM<br>-----   | 3, 4, 13-15                                    |  |
| P, X  | PROC. NATL. ACAD. SCI. USA, vol. 84, October 1987, pages 6624-6628; J.C. WALKER et al.: "DNA sequences required for anaerobic expression of the maize alcohol dehydrogenase 1 gene"<br>* Whole document *   | 1, 2, 5-12, 16-34                              |  |
| O, P<br>X   | NATO ASI SERIES. SERIES A, LIFE SCIENCES, vol. 140, PROCEEDINGS OF A NATO ADVANCED STUDY INSTITUTE ON PLANT MOLECULAR BIOLOGY, Copenhagen, 10th-19th June 1987, edited by D. von Wettstein and Nam-Hai Chua, pages 407-417, Plenum Press, New York, US; E.S. DONNIS et al.: "The response to anaerobic stress: Transcriptional regulation of genes for anaerobically induced proteins"<br>* Pages 410-415 * | 1-34   |  |
| P, X  | PLANTA, vol. 170, 1987, pages 535-540, Springer-Verlag; E.A. HOWARD et al.: "Regulated expression of an alcohol dehydrogenase 1 chimeric gene introduced into maize protoplasts"<br>* Whole document *  | 1, 2, 5-12, 16-23, 25-31                       |  |
| D, Y  | NUCLEIC ACIDS RESEARCH, vol. 13, no. 3, 1985, pages 727-743; E.S. DENNIS et al.: "Molecular analysis of the alcohol dehydrogenase 2 (Adh2) gene of maize"<br>* Whole document *   | 13-15  | TECHNICAL FIELDS SEARCHED (Int. Cl.4)          |
| -----<br>-/-  |   |  |  |
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| D,Y   | SCIENCE, vol. 232, 30th May 1986, pages 1106-1112; R. FLUHR et al.:<br>"Organ-specific and light-induced expression of plant genes"<br>* Page 1108, figure 2 *   | 24   |   |
| A   | CHEMICAL ABSTRACTS, vol. 106, 1987, page 157, abstract no. 11492z, Columbus, Ohio, US; P.M. KELLEY et al.:<br>"The complete amino acid sequence for the anaerobically induced aldolase from maize derived from cDNA clones", & PLANT PHYSIOL. 1986, 82(4), 1076-80<br>* Abstract *                   | 3,4  |   |
| A   | CHEMICAL ABSTRACTS, vol. 106, 1987, page 160, abstract no. 114522j, Columbus, Ohio, US; B. SPRINGER et al.:<br>"The shrunken gene on chromosome 9 of Zea mays L is expressed in various plant tissues and encodes an anaerobic protein", & MGG, MOL. GEN. GENET. 1986, 205(3), 461-8<br>* Abstract * | 1  | TECHNICAL FIELDS SEARCHED (Int. Cl.4)         |
| D,A   | PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE USA, vol. 82, no. 17, September 1985, pages 5824-5828, Washington, US; M. FROMM et al.:<br>"Expression of genes transferred into monocot and dicot plant cells by electroporation"<br>* Whole document *                                      | 30,31  |   |
| -/-   |  |  |   |
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| O,A  | PLANT BIOLOGY, vol. 3, PLANT TISSUE AND CELL CULTURE, With INTERNATIONAL CONGRESS, St. Paul, Minnesota, US, 3rd-8th August 1986, pages 303-316, Alan R. Liss, Inc.; H. LÖRZ et al.: "Gene transfer in cereals"<br>* Page 307, last paragraph; page 308, table 2 *<br>----- | 1,31,2  | TECHNICAL FIELDS SEARCHED (Int. Cl. 4)         |
| The present search report has been drawn up for all claims   |  |   |  |
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